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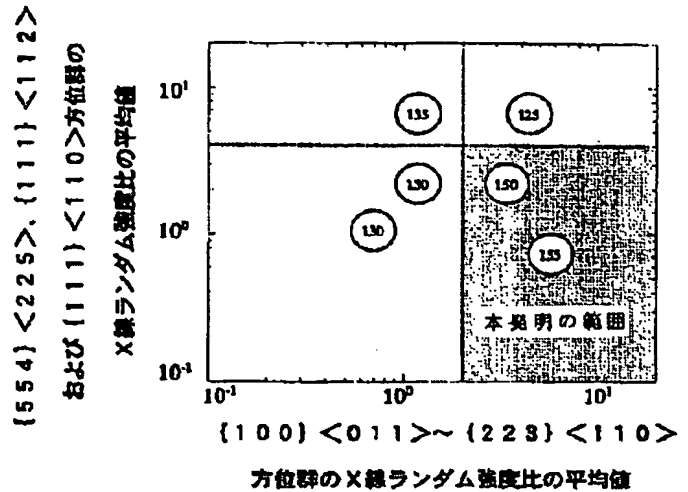
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APPLICANT : NIPPON STEEL CORP;

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TITLE : AUTOMOBILE THIN STEEL SHEET
HAVING EXCELLENT NOTCH FATIGUE
RESISTANCE AND BURRING
WORKABILITY AND PRODUCTION
METHOD THEREFOR



ABSTRACT : PROBLEM TO BE SOLVED: To provide an automobile thin steel sheet which has excellent notch fatigue resistance and burring workability, and a production method therefor.

SOLUTION: The automobile thin steel sheet having excellent notch fatigue resistance and burring workability consists of steel having a composition containing 0.01 to 0.1% C, $\leq 0.03\%$ S, $\leq 0.005\%$ N and 0.05 to 0.5% Ti, and further containing Ti in a range satisfying $\text{Ti-48/12C-48/14N-48/32S} \geq 0\%$, and the balance Fe with inevitable impurities. The average value of the X-ray random intensity ratios in the {100}<011> to {223}<110> orientation groups in the sheet face in the optional depth to 0.5 mm in the sheet thickness direction from the outermost surface is ≥ 2 . Also, the average value of the X-ray random intensity ratios among the three orientations of {554}<225>, {111}<112> and {111}<110> is ≤ 4 , and its sheet thickness is 0.5 to 12 mm.

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